MARAN, J.

"An outline of the entomogeographical conditions in Czechoslovakia."

SBORNIK FAUNISTICKYCH PRACI. ACTA FAUNISTICA ENTOMOLOGICA, Praha, Czechoslovakia, Vol. 1, 1956

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 8, No. 7, July, 1959

Unclassified

MARAN, J.

Aug. Hoffer and Jar. Staif's Obecna entomologie (General Entomology); a book review. p. 222.

OCHRANA PRIRODY. Vol. 11, no. 7, Sept. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

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MARAN, J.	
"The zoogeographic division of Czec eslevikin."	
p. 89 (Gaskoslovenska Schnografie, Tol.63, no. 2, 1938, Praha, Tzechoslovakia)	
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Monthly Index of Sast Burobean Accessions (EEAI) LD, Vol. 7, no. 3, September 1958	

Marsh, STANISLAV.

More Stanislar. Zemenis Coskuslovenske meguatilin; ucebnice one ostur postupny rocnik vsechecem vzdelkymoteh skal. (Vyd. 1.) Funke, St. thi pedamosicke makl., 195k. 171 c. (Secure thy of the vsechislor v kapublic: a texbook for the Sth mords of xhools of memoral election ict. lst ed. illus., maps)

SO: Konthly List of the Bast Suromean Accessions, (SEAL) LV. Vol. 4, no. 10, Uct. 1955. Uncl.

MARAN, STANISLAV

GEOGRAPHY & GEOLOGY

MARAN, STANISLAV. Zemspis Ceskoslovenske republiky; ucebnice pro osmy postupny rocnik vseobecne vzdelavacich skol. Praha, Stani pedagogicke naka., 1957. 172 p.

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DLC has variant edition

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

KIRILLIN, V.A.; PANTYUSHIN, V.S.; SIROTINSKIY, L.I.; BEL'KIND, L.D.; FEDOSEYEV,
A.M.; UL'YANOV, S.A.; VENIKOV, V.A.; MARANCHAK, V.M.; ANISIMOVA, N.D.

Professor I.I.Solov'ev. Fiftieth anniversary of his birth. Elektrichestvo
no.10:93 0 '53.

(Solov'ev, Ivan Ivanovich, 1903-)

Flaranchak, V.M.

Subject

: USSR/Electricity

COMMERCIAL PROPERTY OF THE PROPERTY OF THE

AID P - 4095

Card 1/2

Pub. 27 - 6/24

Author

: Maranchak, V. M., Kand. Tech. Sci., Dotsent

Title

: Protection of water-wheels operating in a unit with

transformers, against short-circuiting.

Periodical

: Elektrichestvo, 11, 33-42, N 1955

Abstract

: The author discusses the problem of protection of waterwheel generators operating in a unit with the step-up transformers where selective protection against shortcircuiting becomes difficult to execute and lacks flexibility. The study of transients caused by the shorts permitted developing a selective protection which responds to currents and voltages of zero sequence.

Its performance is independent of the degree of compensation of the capacity current and is highly sensitive. The author used as filters zero sequence current transformers of the TPNSh type. The same type of protection

AID P - 4095

Elektrichestvo, 11, 33-42, N 1955

Card 2/2 Pub. 27 - 6/24

may be also used for generators connected with the lowtension buses and in complex compensated cable networks. Seventeen diagrams and oscillograms, 3 Soviet references (1936, 1950, 1952).

Institution: Moscow Power Engineering Institute im. Molotov

Submitted : My 13, 1955

MARANCHAK, V.M., kand. tekhn. nauk, dotsent

Using semiconductors in protection devices for electric systems.
Trudy MBI no.30:98-104 '58. (MIRA 12:5)

1.Moskovskiy ordena Lenina energeticheskiy institut, Kafedra releyncy zashchity i avtomatizatsii energosistem.

(Electric networks) (Transistors)

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RAEM(t)/RAEM(c) JD CCESSION NR: AP4046607	8/0181/64/006/010/2	
UTHOR: <u>Kuznetsov, F. A.;</u> Bidorov,		ق ا بران ا بران
OURCE: Fielke twerdogo tele, v. 6		
OPIC TAGS: single crystal growth, grown germanium, chemical transportation, sermanium iodine system, vapustal. Supersaturation at the crystallization is defined and calche general case of crystal growth of germanium crystal growth by a hetionation reaction. Supersaturation determining the morphology and dehemical transport reaction	r supersaturation itical temperature of beglated in the same manner rom the vapor phase and arogeneous-germanium dispossidered an importe	inning for both he case propor- int factor
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supersaturation is defined as AG or Card , 1/3	the ratio Kp/H, where Kp	is the

L 8903-65 ACCESSION ER: AP4046607 ecuilibrium constant of the reaction. If the ratio of partial pressures and AG the change in isobaric-isothermic chemical potential of the process. A generalized formula is derived for calculating the amount of germanium crystallized in a given volume of a given Cel, + Cel, mixture, since in the case of a complex chemical reaction supersaturation cannot be directly correlated with crystallization rate and, therefore, cannot be taken as a measure of deviation from equilibrium. The praviously reported discrepancies between the temperatures of crystallization and of the source site are confirmed experimentally. It is concluded that germanium crystallization occurs at a temperature substantially lower than the equilibrium temperature, since equilibrium is not reached at the source site. Orig. art. has: 1 table and 9 formulas. ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR (Institute of Inorganic Chemistry, 80 AN 685R); Institut fiziki tverdogo tela i poluprovodníkovoy elektroniki 80 AN 888R (Institute of Bolid State

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032220006-5

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RUMANIA

Ing. A. MARANDICI, Institute for Research in Animal Husbandry (Institutul de cercetari zootehnice.)

"Aspects of Poultry Breeding in the Pooples! Republic of Bulgaria."

Bucharest, Revista de Zootehnice si Medicina Veterinara, Vol 13, No 4, Apr 63; pp 109-115.

Abstract: There are 23 million head of poultry in Bulgaria; including 11 in workers' cooperative farms, 2 in state farms, rest private small flocks. Leghorns are most popular (70%). Large farms with mechanized production are encouraged. Feed and various other aspects of poultry breeding such as stock selection, slaughter, are described as seen in many Bulgarian farms.

1/1

RUKANZA

POF, Ing. M. and MARANDICI. Inc. A., Agricultural Section of I.C.Z. (Section de svicultura din I.C.Z.) [Acronym net identified]

"Production of Broilers from Grosses Setween Cornish Cocks and Rhode Island Mens"

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No. 5, May 66; pp 35-40.

Abstract: Crossing Cornish roosters with Rhode Island hens was found advantageous and is recommended for production of broilers. 6 tables show detailed growth by day of the three breede; feed given in each, feed efficiency and related parameters.

1/1

. 102 -

TOPIC TAGS: isoprene, polymerization, kinetics, inhibitor ABSTRACT: Kinetics of isoprene polymerization was studied in the presence of 34 contaminants which are commonly encountered in commercial grade hydrocarbon solvents and in commercial isoprene. These contaminants were: cyclopentadiene, dimethyl formamids, butyl mercaptan, vinyl acetylene, isopropyl acetylene, dimethyl allene, methylethyl acetylene, acetylene, diethyl sulfide, acetonitrile, diethyl amid, car- bon menoxide, diethyl ether, vinylethyl ether, water, thiophene, carbon disulfide,	L 60200-65 EWI(m)/EPF(c)/EWG(m)/EWP(j)/I- Pc-4/Pr-4 DS/WW/GS/JA ACCESSION NR: AT5019603 UR/0000/64/000/900	J/RM 1/0041/0068
romplex catalysts). Moscow, Izd-vo Khimiya, 1964, 41-68 TOPIC TAGS: isoprene, polymerization, kinetics, inhibitor ABSTRACT: Kinetics of isoprene polymerization was studied in the presence of 34 contaminants which are commonly encountered in commercial grade hydrocarbon solvents and in commercial isoprene. These contaminants were: cyclopentadiene, dimethyl formamide, butyl mercaptan, vinyl acetylene, isopropyl acetylene, dimethyl allene, methylethyl acetylene, acetylene, diethyl amid, carbon menoxide, diethyl ether, vinylethyl ether, water, thiophene, carbon disulfide,	TITLE: Effect which contaminants in monomer and solvent have on kine	tics of iso-
TOPIC TAGS: isoprene, polymerization, kinetics, inhibitor ABSTRACT: Kinetics of isoprene polymerization was studied in the presence of 34 contaminants which are commonly encountered in commercial grade hydrocarbon solvents and in commercial isoprene. These contaminants were: cyclopentadiene, dimethyl formamide, butyl mercaptan, vinyl acetylene, isopropyl acetylene, dimethyl allene, methylethyl acetylene, acetylene, diethyl culfide, acetonitrile, diethyl amid, car- bon monoxide, diethyl ether, vinylethyl ether, water, thiophene, carbon disulfide,	SOURCE: Vsescyuznyy nauchno-issledovatel'skiy institut sintetichesko Polimerizatsiya izoprena kompleksnymi katalizatorami (Polymerization complex catalysts). Moscow, Izd-vo Khimiya, 1964, 41-68	of Isoprene by
NH3; dimethyl amide, 2,6-dimethyl-octatriene-1,3,6, pentene dimer, piperylene, iso-	ABSTRACT: Kinetics of isoprene polymerization was studied in the precontaminants which are commonly encountered in commercial grade hydro and in commercial isoprene. These contaminants were: cyclopentadies formamide, butyl mercaptan, vinyl acetylene, isopropyl acetylene, dimethylethyl acetylene, acetylene, diethyl sulfide, acetonitrile, diebon monoxide, diethyl ether, vinylethyl ether, water, thiophene, carbon dioxide, COS, ethyl alcohol, acetone, methylethyl ketone, H2S NH3, dimethyl amide, 2,6-dimethyl-octatriene-1,3,6, pentene dimer, p	ne, dimethyl nethyl allene, thyl amid, car- con disulfide, 02, HCOOH,

experiments were conducted at isoprene concentration was viand the molar ratio of Al(iso the cyclopentane, dimethyl for found to be polymerization in	methylethyl ethylene, and iso 20°C in isopentane and petrol .5 mol/k; the catalyst concent o-CuHq)3:TiCl3=1:1. Among the ormamide butyl mercaptan, and a shibitors. Mechanistically, to	eum ether solvents. The ration was 0,008 mol/2; contaminants examined, acetylene derivatives were con-	
	ts primarily with the catalyst polymer growth chains, and 2.		
the aptive polymer growth ch	ins and practically does not art. has: 3 tables, 14 figures	interact with the cata-	
the active polymer growth chargest active centers. Original	ins and practically does not	interact with the cata-	

S/076/63/037/002/001/018 B101/B186

AUTHORS:

Korotkov, A. A., Marandzheva, Ye. N. (Moscow)

TITLE:

Thermochemical study of the catalytic polymerization of isoprene. I. Thermal effect of the polymerization

reaction of isoprene with butyl lithium

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 37, no. 2, 1963, 257-264

TEXT: To clear up inconsistencies in published data on the thermal effect of isoprene polymerization, this effect was determined directly by calorimetry using an apparatus similar to that of L. Tong, w. Kenyon (J. Amer. Chem. Soc., 67, 1278, 1945; ibid., 69, 1402, 1947). The 50% solution of isoprene in gasoline fraction (b.p. 50-60°C) was polymerized at 35 or 61.3°C with 0.013-0.110 mole/l butyl lithium. In the polymerization at 35°C, ether was used as calorimeter liquid. Results: The thermal effect of the polymerization of isoprene dissolved in gasoline with butyl lithium is 15.7 \pm 0.4 kcal/mole. In two tests the molecular weights of the polymer were 31,500 and 39,300 and the yields 53 and 63%. The degree of unsaturation was 102%, the content of 1,2 and 3,4 links was 7%. The incomplete polymerization is explained by termination caused by impurities Card 1/2

Thermochemical study of the

s/076/63/037/002/001/018 B101/3186

reacting with butyl lithium. The experimental value of the thermal effect is lower than that calculated by A. Ewans, E. Tymall (J. Polymer Sci., 2, 387, 1947) and D. Roberts (J. Res.-Nat. Bur. Standards, 44, 222, 1950). This difference cannot be explained by the content of 1,2 and 3,4 links. It is attributed to a stress in the polymer molecule caused by the interaction of methyl and methylene groups which had not been considered in the calculation. The degree of unsaturation indicates that cyclization and intermolecular cross-linking are not important factors in the polymerization of isoprene at 35°C. There are 5 figures and 2 tables.

ASSOCIATION:

Leningradskiy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka (Leningrad Scientific Research

Institute of Synthetic Rubber)

SUBMITTED:

February 19, 1958

Card 2/2

KOROTKOV, A.A.; MARANDZHEVA, Ya.N. Thermochemical study of the catalytic polymerization of isoprene. Part 1: Heat effect of the polymerization of isoprene by butyllithium. Zhur.fiz.khim. 37 no.2:257-264 F 163.

(MIRA 16:5)

1. Leningradskiy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka.

(Isoprene)

(Heat of polymerization)

(Lithium)

38275

5, 3820 15, 9201 s/190/62/004/006/001/026 5/01/3110

AUTHORS:

Mcrctkov, A. A., Marandzheva, Ye. N

TITLE:

Thermochemical study of the catalytic polymerization of isoprene. II. Effect of temperature on the overall heat effect of the polymerization of isoprene with butyl lithium

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962,

793-802

TEXT: The polymerization of isoprene dissolved in benzene with butyl lithium was studied with a view to a qualitative appreciation of the side reactions. The overall heat effect, Q_s, of the polymerization was measured calorimetrically at 35°C with diethyl ether as calorimeter liquid, at 42°C with methylal, at 51°C with actions hexane, at 61.3°C with chloroform, at 80.2°C with benzene, and at 67.00 with propanol + water. According to Mirchhoff's rule, an increase of the polymerization temperature by 3000 should raise the neat effect by 350-400 cal/mole only; but here an increase of more than 3000 cal/mole was observed: 15.7 kcal/mole at 4.00, 19 kcal/mole at 67.7°C. A discussion of this

Card 1/3

s/190/62/004/006/001/026 3101/3110

Thermochemical study of the ...

effect reveals \mathbb{R}^2 cannot be caused by cross linking, since $\triangle \mathbb{Q}$ is independent between the concentration of monomer and catalyst and of the degree of polymerization. An intramolecular ring formation is therefore assumed:

$$\begin{array}{c} \text{CH}_{3} & \text{CH}_{5} \\ \text{CH}_{2} - \text{CH}_{2} - \text{CH}_{2} - \text{CH}_{2} + \text{CH}_{2} = \text{C} - \text{CH}_{2} = \text{CH}_{2} \\ \text{CH}_{2} - \text{CH}_{2} \\ \text{CH}_{2} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} \\ \text{CH}_{3} & \text{CH}_{3} - \text{CH}_{2} - \text{CH$$

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Thermochemical study of the ...

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ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel kiy institut sintetiches-

kogo kauchuka (All-Union Scientific Research Institute of

Synthetic Rubber)

SUBMITTED:

Jul. 15, 1960

Card 3/3

ENT (1)/EFC (b)-2/EWA(h) Pg-4/P1-4/Pm-4/Po-4/Pg-4/Peb UR/3012/64/000/002/0067/0072 ACCESSION NR: AT5009030 AUTHOR: Areshyan, G. L.; Marandzhyan, G.B. TITLE: The probability and entropy reliability criteria SOURCE: Yereven. Yuchislitel'nyy tsentr. Trudy, no. 2, 1964, Matematicheskiye voprosy kibernetiki i vychislitel'noy tekhniki; lineynoye programmirovaniya i teoriya avtomatov (Mathematical problems of cybernetics and computer engineering; linear programming and the theory of automatic control devices), 67-72 TOPIC TAGS: discrete memoryless automaton, probabilistic automaton, deterministic automaton, probabilistic reliability criterion, entropy reliability criterion ABSTRACT: The authors define a memoryless probabilistic discrete automaton as a device which is used for the processing of discrete information and has only a single steady state; each input symbol determines the probability at the output alphabet. Such an automaton is fully specified by its reaction matrix. Memoryless elements, setups, and complicated devices of discrete technology can then, under specified conditions of unreliable operation, be viewed as memoryless probabilistic automata. Using specific examples they show how to transform the probabilistic automaton into a deterministic one

ccession NR: AT500903 degeneration of the probab eliability criteria, "The and advice." Orig. art. ha	ilistic automation), and authors thank Docent <u>G</u> s: 16 formulas.		c and entropy or his help	
ASSOCIATION: Vychialitel	'nyy tsentr Yerevan, (Computer Center)		
SUBMITTED: 16Jan64 =	ENCL: 00	SUB CODE: DP		
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L 11033-66 EWT(d)/EWT(1)/T/EWA(h) SOURCE CODE: UR/0271/65/000/009/B005/B005 ACC NR: AR6000418 SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika, Aos. 9838 AUTHOR: Areshyan, G. L.; Marandzhyan, G. TITLE: Probabilistic and entropy criteria of reliability 25 CITED SOURCE: Tr. Vychisl. tsentra AN ArmSSR i Yerevansk. un-ta, vyp. 2, 1964, 67-72 TOPIC TAGS: automaton, reliability criterion, automaton reliability TRANSLATION: Definitions of failure (irreversible structural change) and malfunction (revorsible change) are suggested for a deterministic nonstorage automaton. It is shown that the deterministic automaton operating with malfunctions can be reduced to a probabilistic automaton. A method is suggested for experimental determination of the values of a_{ij} -elements of the probability matrix of automaton y_i (i = 1,2,...,m) response to an alphabet of input signals x_j (j = 1,2,...,n), i.e., a_{ij} are the conditional probabilities $p(y_i/x_j)$. This function is offered as a probabilistic criterion of reliability: 14.44.15 $\psi = \sum_{i=1}^{n} p_{i}\sigma_{ij}.$ where p_i ((i = 1,2,...,n) is the distribution of probabilities over the input alphabet of the probabilistic automaton; a_{ij} are those elements of the matrix UDC: 621.142.019.3.001 Card 1/2

ACC NR: AR6000418 of probabilities of malfunction ones in the deterministic no-mail as; can take on only 1 or	allunction automat	se which occupy the on (naturally, for	positions of this automator	<i>O</i>	
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ACCESSION NR: AT5009021 UR/3012/64/000/002/0073/0081

AUTHOR: Areshyan, G.L.; Marandzhyan, G.B.

TITLE: Some problems in the probability theory of automata

33 31 11

SOURCE: Yerevan. Vychislitel'nyy tsentr. Trudy, no. 2, 1964. Matematicheskiy voprosy kibernetiki i vychislitel'noy tekhniki; lineynoye programmirovaniye i teoriya avtomatov (Mathematical problems of cybernetics and computer engineering; linear programming and the theory of automatic control devices), 73-81

TOPIC TAGS: probabilistic discrete automaton, automaton reliability

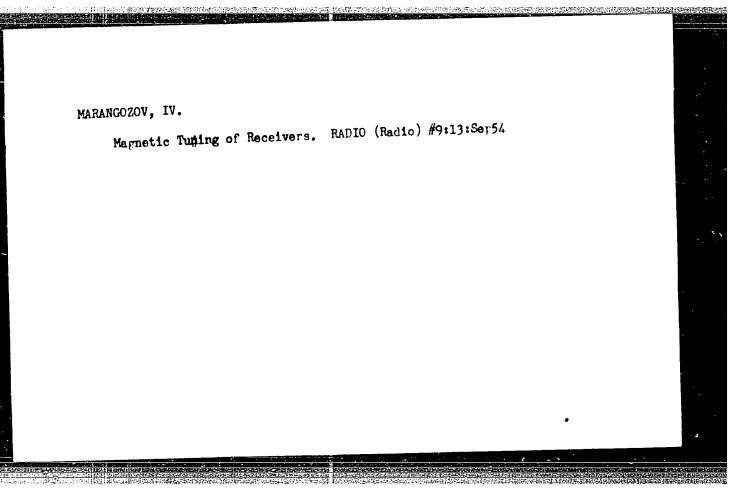
ABSTRACT: The probabilistic memoryless discrete automata and their correct incorporation within a complex system have been investigated. Such a complex system is described fully by its equivalent probabilistic automaton having a reaction matrix completely determined by the reaction matrix of the original automaton. The results of this paper may be used for the analysis of the probability automata proper and also during studies of the reliability of real devices of discrete technology which are unreliable because of a special category of errors. These are caused during the cycle by reversible changes in physical parameters and random factors, which causes need not generate errors in subsequent cycles (see G. L. Areshyan, G.B. Marandzhyan, Vychislitel nyy tsentr.

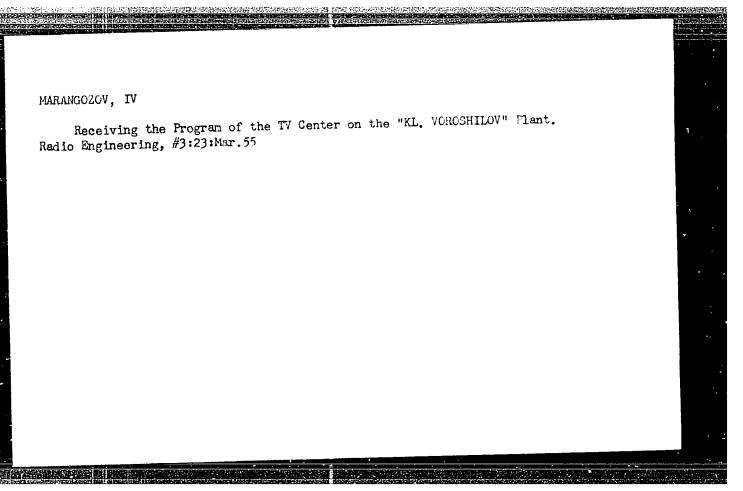
or the calculation of load in within extended systems. ' advice." Orig. art. has:	72). In addition, the s ntensity in real elemen 'The authors thank Doc 21 formulas and 6 figur	ame results may form the foundation to of discrete technology incorporated ent G.A. Ambartsumyan for valuable es.	
ASSOCIATION: Vychislitel SUBMITTED: 16Jan64	ENCL: 00	SUB CODE: DP, IE	
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MARANCOZOV.

Television standards." Vol. 3, No. 5/6, 1954, p. 55. Radio, Bofiya.

SC: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.





MARANGOZOV, I. Reception of television programs from the television station at the Machine-Electrotechinical Institute in the Voroshilov Plant. p. 23. Dalibor radio receiver. Tr. from the Czech. p. 26. RADIO. Sofiya. Vol. 4, no. 3, 1955. SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

MARANGOZOV, I.

New 1956 models of radios. p. 19.

RADIO Vol. 4, no. 12, 1955

Sofiya, Bulgaria

so. EAST EUROPEAN ACCESSIONS LIST Vol. 5, no. 7 July 1956

MARANGOZOV, I.

Modern European radio receivers. p. 27.
Tesla 510 a radio receiver. Tr. from the Czech. p. 35.

RADIO. Vol. 5, no. 1, 1956

Sofiia, Bulgaria

SOURCE: East European Accessions List (EFAL) Library of Congress, Vol. 6, No. 1, January 1957

MARANGOZOV, I.

MARANGOZOV, I. Grundig SCU radio receiver. p. 22.

Microphone volume control and regulator. Tr. from the French. p. 25.

The kind of intermediate frequency to select for the receiver. p. 26.

Vol. 5, No. 3, 1956.

RADIC
TECHNOLOGY
Sofiia, Bulgaria

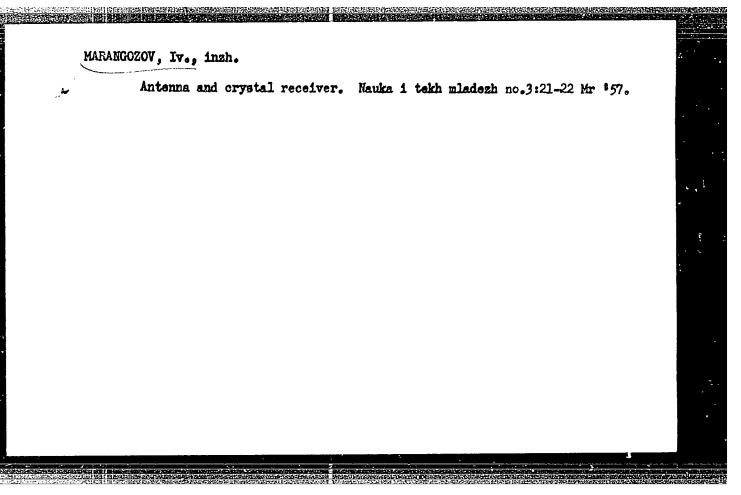
So: East Eu opean Accession, Vol. 6, No. 2, Feb. 1957

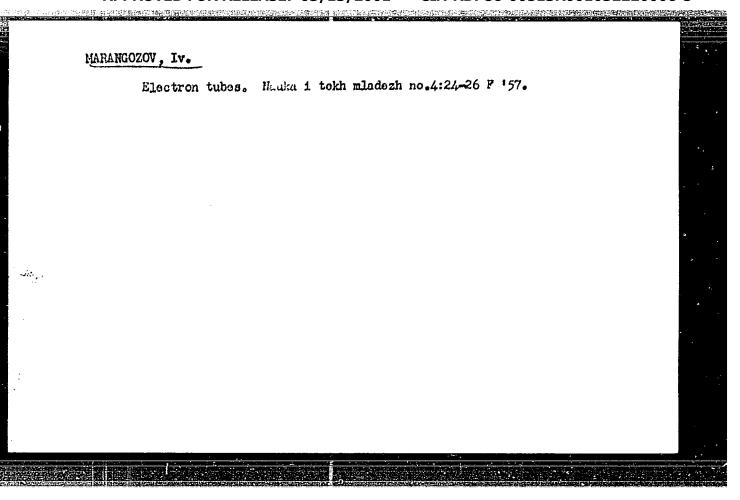
MARANAGOZOV, Iv., inzh.

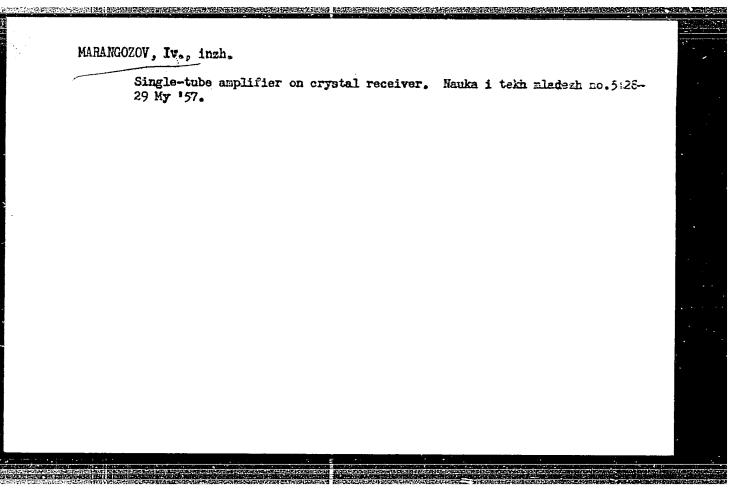
Electric vibrations. Nauka i tekh mladezh no.1:18 Ja 157.

HARANGOZOV, Iv., inzh.

Radio transmission and radio waves. Neuka i tekhn mladezh no.2:18-19 F $^{\circ}57$.







MARANGOZOV, Ivan, inzh.

Moduli of a digital universal regulating system. Tekhnika
Bulg 12 no.7:4-8 '63.

MARANGEZUV, L.

BULGARIA/General Problems of Pathology - Tumors.

T-5

Abs Jour : Ref Thur - Biol., No 4, 1958, 17437

Author : Petrov, 3., Metev, M., Marangozov, L.

Inst:

Title : The Clinical Picture and Course of Acute Leukemias of

Childhood.

Orig Pub : Voyen. med. delo (B lg), 1957, 12, No 2, 29-36

.

Abstract : No abstract.

Card 1/1

NIKOLOV, Blagoi, inzh.; VICHEV. Stefan, inzh.; MARANCOZOV, Leonid, inzh.; KAMENOV, Todoz; TODOROV, Naicho

Analysis of the technical and economic indexes attained for large-paneled residential buildings in Bulgaria. Stroitelstvo 11 no.5:16-20 S-0 '64.

TRAIKOV, T.P.; CUNCERV, L. At. MANAMMOZEV, D. 71.

Synthesia by modeling the validative system of automatic control satisfying the principle of invariance. Godismik mass elect 13 no.2: \$-22 '63. [publ. '64]

TRIYKOV, T.P. (Bolgariya); GUNCHEV, L.A. (Bolgariya); MARANGOZOV, S.V. (Bolgariya)

Synthesis of a high-quality automatic control system using a model with satisfication of the invariance principle. Avtomatyka 10 no.1235-41 65. (MIRA 1836)

是是一种的企业,但是一个企业,但是一个企业,是一个企业,是一个企业,是一个企业,但是一个企业,但是一个企业,但是一个企业,但是一个企业,但是是一个企业,但是一个企

MARANOVICH

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AUTHOR:

Mar'anovich,

TITLE:

Reliability of a system with mixed reserve

PERIODICAL:

Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no.8,

1961, 994-997

TEXT: In this paper a problem of the theory of reliability, proposed by B. V. Gnedenko, member, AS UkrSSR, is solved. 1) A system consists of n devices of the same type. Every device can become out of order at random instants, not depending on other devices. The probability of disorder during the interval (t, $t+\Delta t$) is equal to $\lambda_1 \Delta t + o(\Delta t)$ and is independent of the instant t. The devices which become out of order are repaired at once. The time of repairing is a chance value & with the same distribution for all devices, the distribution function being F(x) and the mathematical expectation $\mu < \infty$. If any device is disturbed, the system is immediately completed from the socalled "hot" reserve consisting of m devices. The devices of Card 1/8

28708 S/021/61/000/008/003/011 D210/D303

Reliability of a system ...

this reserve may, in turn, become out of order at arbitrary instants with the probability \bigwedge \bigwedge \bigwedge t + o(\bigwedge t). The time of restoring the reserve devices is a chance value with the distribution function F(x). The "hot" reserve is completed from the "cold" reserve consisting of r devices. The devices of the "cold" reserve do not get out of order. It will be considered that the system is out of order when the number of devices which are being repaired is larger than N. p. denotes the probability of the number of devices in the state of repair - if the working regime of the system is stationary - being equal to k. Then the relia-

bility of the system will be $\sum_{k=0}^{N} p_k$. In what follows the proba-

bilities p_k are determined with the aid of the theory of mass servicing. 2) System of equations. Let $p_k(x_1...x_k;t)$ be the probability that at the instant t the number of devices being repaired is k and that these devices were already being repaired

X

Card 2/8

28708

Reliability of a system ...

S/021/61/000/008/003/011 D210/D303

prior to t during the intervals $x_1 \dots x_k$ respectively. To determine $p_k(x_1 \dots x_k; t+\Delta t)$, the corresponding event can take place in two manners excluding each other: 1) At t, there were k devices being repaired during intervals $x_1 - t$, $\dots x_k - \Delta t$; during Δt , none of them was restored and none of the devices of the system or the "hot" reserve becomes out of order; 2) At t there were k+1 devices being repaired during intervals $x_1 - \Delta t$, $\dots x_k - \Delta t$; during Δt none of the working devices or those of the "hot" reserve becomes out of order and the device that was being repaired during $x_{k+1} - \Delta t$ has been restored. All other possibilities have the probability of the order $o(\Delta t)$. The first of the above events has the probability

$$p_{k}(x_{1}-\Delta t,...,x_{k}-\Delta t;t) \int_{s=1}^{k} \frac{1-F(x_{s})}{1-F(x_{s}-\Delta t)} (1-\varphi \Delta t) + o(\Delta t)$$
 (1)

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28708 5/021/61/000/008/003/011 D210/D303

Reliability of a system ...

where

$$\varphi = \begin{cases} n\lambda_1 + m\lambda_2 & \text{if } k < r \\ n\lambda_1 + (m+r-k)\lambda_2 & \text{if } r \le k < m + r \end{cases}$$

$$(m+n+r-k)\lambda_1 & \text{if } m+r \le k < m+n+r \end{cases}$$

$$0 & \text{if } k=m+n+r \end{cases}$$

The probability of the second event is also given. The following notation is then introduced:

$$\widetilde{\psi} = \begin{cases} \psi \text{ if } 0 \leqslant k < m + n + r \\ 0 \text{ if } k = m + n + r \end{cases}$$

and

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Y

28708

Reliability of a system ...

S/021/61/000/008/003/011 D210/D303

$$p_{k}(x_{1},...,x_{k};t+\Delta t) = p_{k}(x_{1}-\Delta t,...,x_{k}-\Delta t;t) \times$$

$$\times \int_{s=1}^{k} \frac{1-F(x_{s})}{1-F(x_{s}-\Delta t)} (1-\varphi \Delta t) + \widetilde{\psi} + o(\Delta t)$$
(3)

$$p_{k}^{*} = \frac{p_{k}(x_{1}, \dots, x_{k}; t)}{\sqrt{\sum_{s=1}^{k} [1 - F(x_{s})]}}$$
(4)

are derived: Supposing the existence of corresponding derivatives one obtains from Eq. (3) the system of integro-differential

Card 5/8

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28708

Reliability of a system ...

S/021/61/000/008/003/011 D210/D303

$$\frac{\partial p_{k}^{*}}{\partial t} + \frac{\partial p_{k}^{*}}{\partial x_{1}} + \dots + \frac{\partial p_{k}^{*}}{\partial x_{k}} = -\varphi p_{k}^{*} + \widetilde{\psi}; 0 \leq k \leq m + n + r \qquad (5)$$

Then the boundary conditions

$$p_{k+1}^{*}(x_{1},...,x_{k},0;t) = \frac{\varphi}{k+1} p_{k}^{+}(x_{1},...,x_{k};t); 0 \le k \le m+n+r$$
 (6)

are obtained. 3) Stationary solution. If the working regime of the system is stationary the derivatives with respect to t are equal to 0 and the system of Eqs. (5) with the boundary conditions (6) has the solution

Card 6/8

X

Reliability of a system ...

28708 S/021/61/000/008/003/011 D210/D303

$$p_{k}^{\bullet} = \frac{(n\lambda_{1} + m\lambda_{1})^{k}}{k!} p_{0}; \ k < r + 1.$$

$$p_{k}^{\bullet} = \frac{(n\lambda_{1} + m\lambda_{2})^{r+1}}{k!} \prod_{s=1}^{k-r-1} [n\lambda_{1} + (m-s)\lambda_{2}] p_{0}; \ r + 1 < k < m + r + 1.$$

$$p_{k}^{\bullet} = \frac{\lambda^{k-m-r-1}}{k!} \frac{(n+1)!}{(m+n+r-k)!} \prod_{s=1}^{m} [n\lambda_{1} + (m-s)\lambda_{2}] p_{0};$$

$$m + r + 1 < k < m + n + r.$$

Taking Eq. (4) into account and integrating with respect to all variables from 0 to oo

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S/021/61/000/C08/003/011 D210/D303

Reliability of a system ...

 $p_{k} = \frac{(n\lambda_{1} + m\lambda_{2})^{k} u^{k}}{k!} p_{0}; k \leq r + 1$ (7)

is obtained. The constant p_0 is determined from the normalizing

condition _____ p_k = 1. The author expresses his gratitude to

B. V. Gnyedenko, Academician AS UkrSSR, for formulating the problem and his valuable comments. There are 2 Soviet-bloc references.

Instytut matematyky AN URSR (Institute of Mathematics, AS UkrSSR) ASSOCIATION:

by Academician AS UkrSSR, B.V. Gnyedenko PRESENTED:

November 16, 1960 SUBMITTED:

Card 8/8

MARANOVIK, A.V.

137-58-5-8749

CONTRACTOR OF THE PROPERTY OF

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 4 (USSR)

AUTHORS: Maranovik, A. V., Gyul'akhmedov, V. N.

TITLE: Improving the Quality of Cobalt Concentrate (Povysheniye ka-

chestva kobal tovogo kontsentrata)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR.

1957, Nr l, p 10

ABSTRACT: In order to improve the quality of concentrate it is suggested

that five consecutive purification stages be included in the existing operational procedure. As a result of the introduction of these measures, the specific weight of high-grade production increased to 37.7 percent, while that of low-grade output decreased

to 12.8 percent.

A. 5h.

1. Cobalt ores--Processing 2. Cobalt ores--Purification

Card 1/1

S/263/62/000/004/003/009 1004/1204

AUTHOR:

TITLE:

Maranowicz, Stanisław

Vibrometer

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 4, 1962, 15-16,

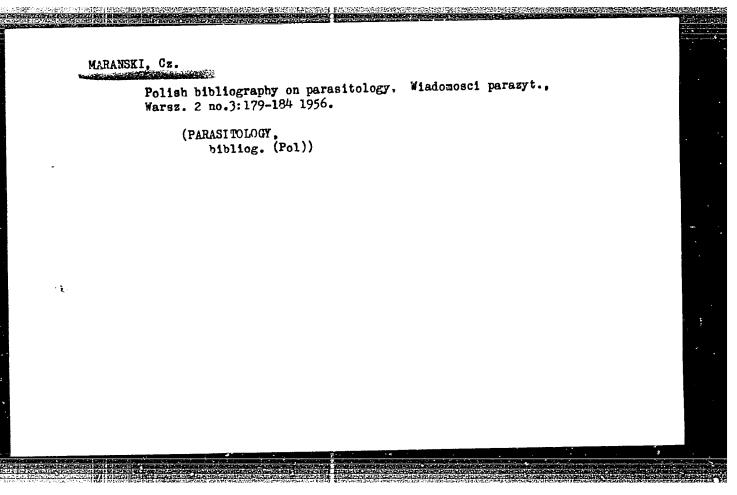
abstract 32.4.108 P [Strzybnickie Zakłady Konstrukcji i Elementów Zelbetowych] Polish

patent, class 42c, 42, no. 43654, February 4, 1961

TEXT: The patent covers a vibrometer used for rapid determination of the amplitude and frequencyof vibration machines. The main part of the vibrometer consists of a frame with a series of springs of various lengths stretched across it. The frame is rigidly mounted in a wooden box. The vibrations of the box walls are easily transferred to the springs. A double slide is fixed on the frame; by displacing the slide towards the resonating spring one may read the frequency of the vibrations on a horizontal scale and their amplitude on a vertical scale. The range of calibration frequencies is selected in accordance with requirements, for example, 2770 to 3900 vibrations per minute at amplitudes between 0 and 2 mm. The springs are so chosen that their length corresponds to a quarter of a wavelength. An amplitude limiter limits displacements of the springs which exceed a certain limit. If the actual vibration frequency lies between the resonant poins of two adjacent springs, both these springs will vibrate. In this case their amplitudes should be read separately and added together.

[Abstracter's note: Complete translation.]

Card 1/1



Application. Pesticides.

POLAND/Chemical Technology - Chemical Products and Their

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36140.

Author : Maranski, Cz., Wielopolski, A., Skotnicki, J.

Inst : Institute for Small Industry.

Title : The formule Against the Godfly with the Aid of Prepara-

tion PChis-56.

Orig Pub : Biul. inform. Inst. prexem. drobnego, 1956, 3, No 1-2/8,

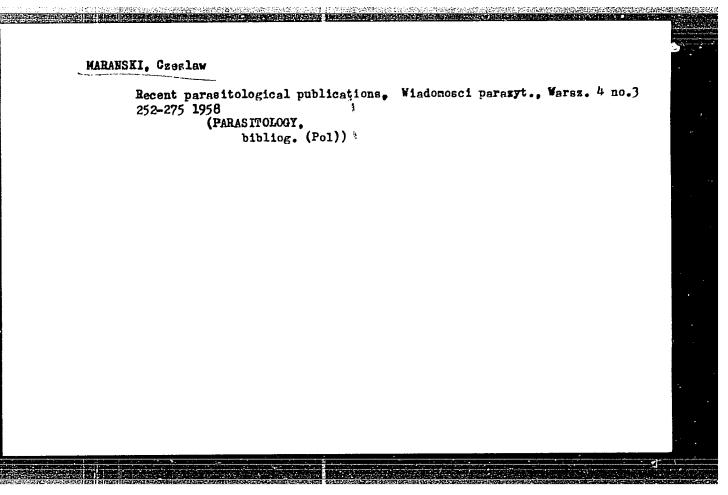
1-2.

Abstract : There are submitted the results of experiments in the

struggle against gadflies with the aid of preparation PChBS-56, containing n-dichlorobenzene, S compounds occurring in the low-temperature fractions of coal tar (melting point, 140-310°), the K salt of raw thallic acids and the Na salt of dibutylmethyl maphthalenesulpho-

Card 1/2

4-107

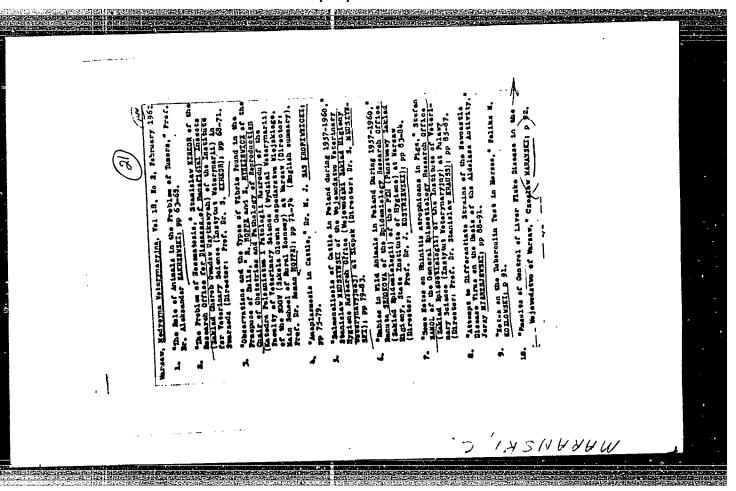


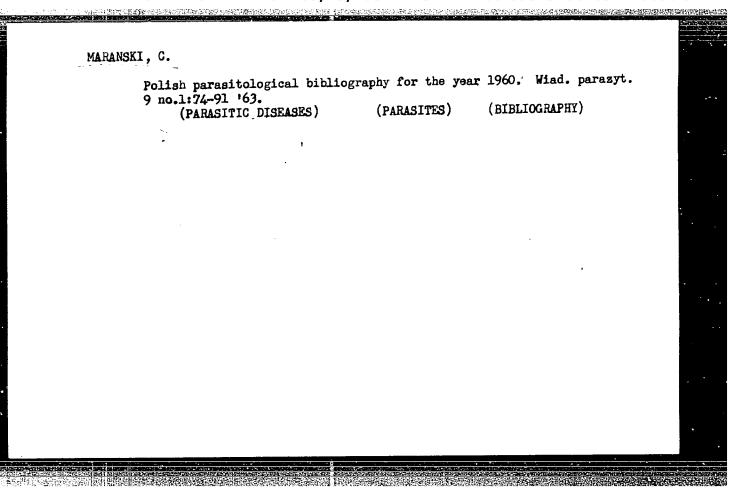
MARANSKI, Czeslaw Commarkson of effectiveness of various chemical preparations in control of wylasis in cattle. Wiadonosci parazyt., Warsz. h no.5-6:485-486; Zngl. transl. 486-487 1958. 1. Z Zakladu Parazytologii PAN w Warszawie. ((ATPULM, dio. mylasis, chem. prev. comparison of various drugs (Pol)) (MYIASIS, prev. & control, in cattle, comparison of various drugs (Pol))

MARANSKI, Czeslaw

Results of liver fluke in the Warsaw tegion. Wiadonosci parazyt.,
7 no.4/61934-938 '61.

1. Zaklad Parazytologii PAN. Warszawa.
(LIVER DISEASES veterinary)
(TREMATODE INFECTIONS veterinary)





MARANSKI, Czeslaw

The effect of the control action of cattle grub on the intensity of infection in the following years. Acta parasit Pol 11 no. 19: 265-282 163.

1. Zaklad Parazytologii, Polska Akademia Nauk, Warszawa.

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ZARNOWSKI, Rugeniusz; (HOMANIOM, Wieslaw; DARSKI, Jerzy; MALCOEWSKI, Andrzej; MARAKSLI, Izerlaw; ZEBROWSKA, Farute; JAMEGZEK, Marien.

Studies on the therapy of fascipliasis in satule. I. Intrance-cular injections of COL-4, Wiad. parazyt. 10 no.42479-480 [52]

Studies on the therapy of fasciolissis in cattle. II. Herach'orrethene (District-Blovet and Aviothane I.C.I.) and I.2-bis-trichloromethy/benzeme (Hetol-Hoechst).

1. Zaklad Parazytologii i Chorob lawazyjny h Instytuto Weterynaryjnego w Fulawash i Zaziai Parazytologii Polskiej Akateril Nauk w Warsawie.

ZAMNOWSKI, Eugeniusz; CHOWANIEC, Wieslaw; MALCZEWSKI, Andrzej; MARANSKI, Czeslaw; ZEBROWSKA, Denuta: JANECZEK, Marian

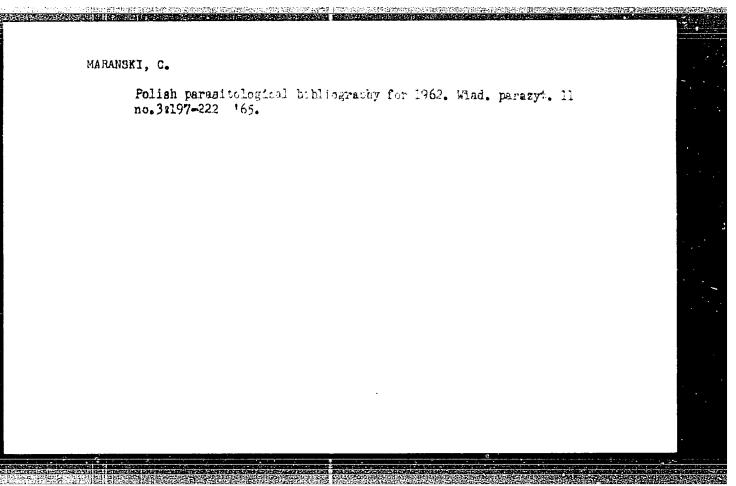
Studies on the 'herapy of fascicliasis in cettle. III. Hexa - chlorophene (Bilevon-Bayer) and 2.2'-dichloro-4,4'-dinitro-1,1'-dioxydiphenol (Bilevon M-Bayer, Bilevon 9015-Bayer). Wiad. parazyt. 10 no.4:483-485 '64

l. Zaklad Parazytologii i Chorob Inwazyjnych Instytutu Weterrynaryjnego w Pulawach i Zaklad Parazytologii Polskiej Akademii Nauk, Warszawa.

MARANSKI, Gzeslav

Study of the control of hypodermatosis. Wiad parazyt. 11 no.13 284-288 '65.

1. Zaklad Parazytologii Polskiej Akademii Nauk, Warszawa.



MARANTIDI, G.Ye.; KHVOROSTOVA, K.G.

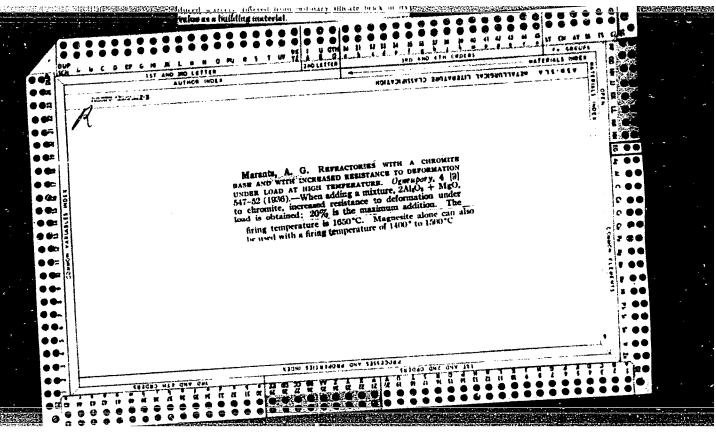
Central nervous system function in patients with cardiovascular diseases and its changes following treatment with hydrogen sulfide and radon baths. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.3:238-243 My-Je '61. (MIRA 14:7)

1. Iz otdeleniya funktsional'noy diagnostiki (zav. - doktor meditsinskikh nauk G.Ye.Marantidi) TSentral'nogo instituta kurortologii (dir. - kandidat meditsinskikh nauk G.N.Paspelova).

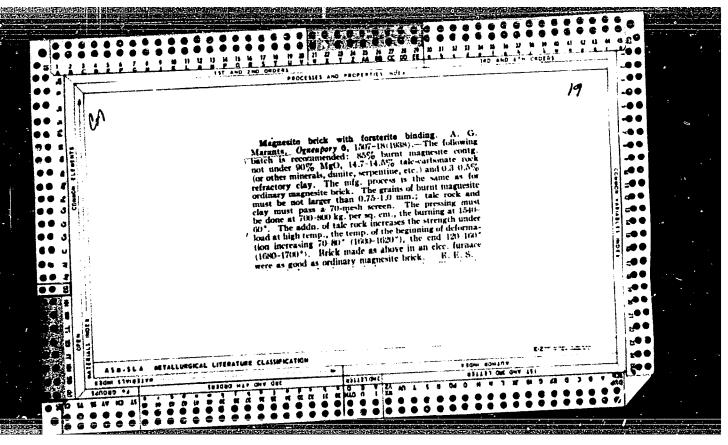
(NERVOUS SYSTEM) (CARDIOVASCULAR SYSTEM_DISEASE3)

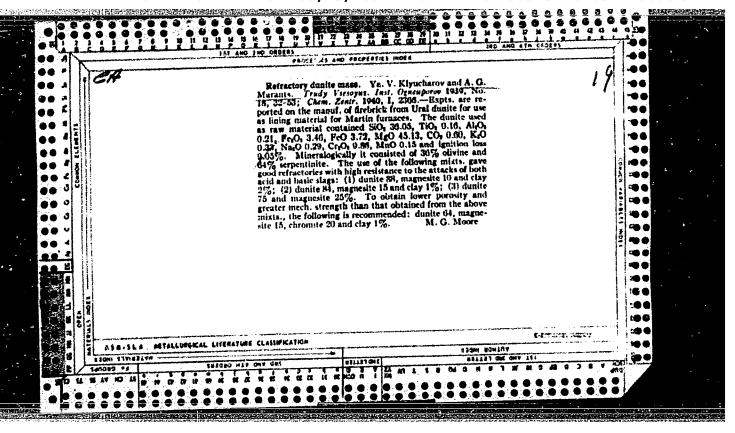
(HYDROGEN SULFIDE_THERAPEUTIC USE)

(RADON_THERAPEUTIC USE)



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	"On Progressive Technology of Magnesite Products," A.G. Marants, Cand Tech Sci, Leningrad Inst of Refractories	On Progressive Technology of Magnesite Products," (G. Marants, Cand Tech Sci, Leningrad Inst of efractories Ogneupory" No 7, pp 302-309	"On Progressive Technology of Magnesite Products," A.G. Marants, Cand Tech Sci, Leningrad Inst of Befractories "Ogneupory" No 7, pp 302-309 Discusses fabrication of magnesite metallurgical powder and ordinary magnesite brick at Magnezit Plant and works out more efficient method. Con- qludes that progressive technology of magnesite brick must be based on using synthetic magnesite	"On Progressive Technology of Magnesite Products," A.G. Marants, Cand Tech Sci, Laningrad Inst of Bairactories "Ogneupory" No 7, pp 302-309 Discusses fabrication of magnesite metallurgical porder and ordinary magnesite brick at Magnezit Plant and vorks out more efficient method. Con- cludes that progressive technology of magnesite brick must be based on using synthetic magnesite brick must be based on using synthetic magnesite compa. Suggests 2d less efficient but still rational method on basis of fine-grained, 2 to 0 mm, fractional compactite of class one. Canada Strained aggnesite of class one.

ZAGZHDA, V.P.; TIKHOHOVA, L.A.; SOKOLOV, V.I.; MARANTS, A. DYENIKOV, V.A.;

KAZAKEVICH, S.S.; SARNIN, A.P.; GAVRILLOV, A.I.; MOVIKOV, A.H.;

MECHEPORENKO, M.A.; KLL'HOVA, Ye.A.; FEDOROV, C.A., redaktor;

PEL'DGABDIER, G.G., redaktor; ROZEMTSVEYG, Ya.D., redaktor izdatel'
atva; KIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Handbook on refractory elements and materials] Spravochnik na

ogneupornye izdeliia, materialy i syr'e. Sostavlen po gosudarstven
nym standartam i tekhnichesim uslovitam. Moskva, Gos. nauchno
tekhn. izd-vo lit-ry po chernoi i tsvatnoi metallurgii, 1956. 195 p.

(MIRA 10:2)

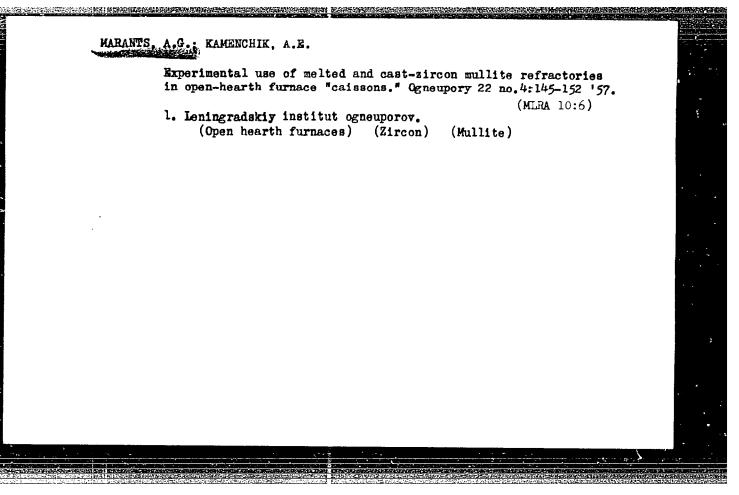
1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii.

2. Leningradskiy istitut ogneuporov. (for Zagzhda, Tikhonova, Sokolov,

Marants, Rybnikov, Kazakevichi, Sarmin, Gavrilov, Movikov, Hecheporenko,

Kal'mova.

(Refractory materials)



marants, A.G.

AUTHORS:

Ivanov, Ye. V., Gaodu, A. N., Marants, A. G.

TITLE:

On the Problem of the Utilization of Caustic Dust for the Production of Sintered Magnesite Powders (K voprosu... ispol'zovaniya kausticheskoy pyli dlya proizvodstva

magnezitovykh spechennykh poroshkov).

PERIODICAL: Ogneupory, 1958, Nr 2, pp 49-54 (USSR)

ABSTRACT:

The investigations of VNIIO have shown, that it is possible to produce powders on the basis of caustic dust with the help of sedimentation. A group of researchers together with Ye. F. Bugayev of the "Magnesite" plant conducted experiments in the laboratory and in the plant for the purpose of silt preparation with a varying content of raw magnesite and of caustic dust. In order to investigate the properties of the dust, samples were taken from different cyclone seperator groups (see figure). The experimental results are given in tables 1 and 2. Magnesite slip from raw magnesium and caustic dust the chemical composition of which is given in table 3 were employed for the laboratory experiments. The properties and precipitation velocities of the slip prepared from 100 % caustic dust are given in table 4. Table 5 contains the slip properties of a mixture of raw magnesite and caustic dust

Card 1/2

On the Problem of the Utilization of Caustic Dust for the 131-2-1/10 Production of Sintered Magnesite Powders

and table 6 the chemical composition of the raw magnesite and slip the caustic dust. The modification of the chemical composition of the slip with an addition of caustic dust can be seen from table 7. On the basis of the experiments conducted a pneumatic transport system was constructed for the supply of caustic dust to the mill bunkers. By means of further measures adopted it was possible to produce slip of 100 % caustic dust.

There are 1 figure and 7 tables.

ASSOCIATION: Institute of Refractory Materials, Khar'kov

(Khar'kovskiy institut ogneuporov).

Institute of Refractory Materials, Leningrad

(Leningradskiy institut ogneuporov).

AVAILABLE: Library of Congress

Card 2/2

MARANTS, A.G.; DEREVYANCHENKO, L.D.; VAR'YEND, V.A., tekhn. red.

[Enumeration of standards and specifications for articles of the refractories industry and for raw materials used in their production as of October 1, 1959] Perechen' deistvulushchikh standartov i tekhnicheskikh uslovii na izdeliia ogneupornoi promyshlennosti i iskhodnye materialy dlia ikh proizvodstva (po sostoianiiu na l oktiabria 1959 goda). Sost.A.G.Marants, i L.D.Derevianchenko. Leningrad, 1959. 71 p. (MIRA 16:10)

l. Leningrad. Vsesoyuznyy gosudarstvennyy institut nauchnoissledovatel'skikh i proyektnykh rabot ogneupornoy promyshlennosti.

(Refractory materials-Standards)

MARANTS, A.G.

PHASE I BOOK EXPLOITATION SOV/5865

- Zegzhda, V. P., L A. Tikhonova, V. I. Sokolov, A. G. Marants, V. A. Rybnikov [deceased], L. D. Derevyanchenko, A. K. Karklit, E. A. Aksel'rad, and A. P. Sarmin
- Spravochnik na ogneupornyye izdeliya, materialy i syr' ye. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviyam (Handbook of Refractory Products, Materials and Raw Materials. Compiled According to State Standards and Technical Specifications) 2d ed. rev. and enl. Moscow, Metallurgizdat, 1961. 338 p. Errata slip inserted. 12,500 copies printed.
- Supervisor: A. G. Marants; Ed.: G. G. Fel'dgandler; Ed. of Publishing House: Ye. I. Maksimov; Tech. Ed.: A. I. Karasev.
- PURPOSE: This manual is intended for technical personnel working in ferrous and nonferrous industries and in other branches of industry and construction, for planners, designers, and personnel of technical supply administrations,

Card 1/8

Handbook of Refractory Products (Cont.)

SOV/5865

and for specialists in refractory manufacture and application.

COVERAGE: The manual deals with State standards and technical specifications for refractory ware, materials, and stock used in the construction and repair of furnaces used for smelting, heating, calcination, and distillation, and of fire chambers for boilers and dryers. The specifications also cover other thermal units used for processing under high thermal conditions, but do not include all refractory materials since approximately 10% of them have never been standardized. This edition has been enlarged by the inclusion of data on cast refractories and carbonaceous ware, as well as additional data on refractory stock, magnesite ware, forsterite ware, and metallurgical filler powders. The lists included in the manual contain State standards and specifications approved as late as Mar 1960. No personalities are mentioned. There are no references.

Card 2/8

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Refractory materials made of magnesite dust obtained by a wet process. Ogneupory 26 no.8:355-360 '61. (MIRA 14:9)	
1. Vsesoyuznyy inasitut ogneuporov. (Magnesite) (Refractory materials)	

MARANTS, A.G.

Expanding the production of electrocast refractories. Ogneupory 29
no.ll*199-500 164. (MIRA 18:1)

1. Vsesoyuznyy institut ogneuporov.

STRELOV, K.K.; BESSONOV, A.F.; LOPATINSKAYA, D.I.; MARANTS, A.G.; DOLGIKH, A.Ye.

Determining the density of refractories. Ogneupory 30 no.6: 1-8 '65. (MIRA 19:1)

1. Vostochnyy institut ogneuporov (for Strelov, Bessonov, Lopatinskaya). 2. Vsesoyuznyy institut ogneuporov (for Marants, Dolgikh).

L 09099-67 EWT(m)/EWP(t)/ETI/EWP(k) JD ACC NR: AP7002329 SOURCE CODE: UR/0422/66/000/006/0044/004	.5
Marants, A.G., Dorovyanchenko, L.D., Norkina, A.S.	
"New Standards - Products for Pouring Stoel From the Ladle"	1
Moscow, Standarty 1 Kachestvo, No 6, June 66, pp 44-45 Abstract: The All-Union Institute of Refractories has developed and the Committee on Standards has approved State All-Union Standard (GOST) 5500-64 on re-	
fractory stopper materials. The new standard has replaced GOST 5500-50 [and 4978-49] in the stopper tube section. It covers refractory and highly refractory products for pouring steel from the ladle: stopper tubes, plugs, molds, mold	5
covers and pit bricks. The number of standard dimensions was reduced for stopper tubes from 15 to 8, for molds from 31 to 20, for covers from 3 to 2. For pit brick the number of standard diemnsions increased from 3 to 12, since	
component brick has been introduced for the most widely used mold types (160 and 210 mm diameter). Large size ladles are to use thicker stopper tubes and 200 mm diameter plugs which will protect the pin from overheating; a plug with a	
lengthened spherical portion is also called for. For chamotte stopper tubes the	
plugs, special, this norm is set at no less than 39%, which corresponds to the requirements for heat resistance. The temperature at which chamotte semi-dry produced plugs may start to deform under load according to the new standard.	
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	is 1320°C for general purpose and 1350°C for special purpose plugs. This will provide for normal operating conditions of the plug device. The compressive strength for chamotte pit brick is increased from 100 to 125 kg/cm². The expansion of the assortment of plug products, improvement of their jointing, wide introduction of the semi-dry method of production of aluminosilicate products and stiffening of requirements as to certain physical and chemical indices allow an improvement of the quality of plug supplies and a considerable increase in the reliability of the plug structure. /JPRS: 37,480/	•	<i>1</i> 1	
	ORG: none			
	TOPIC TAGS: refractory, aluminum oxide	ļ		
	SUB CODE: 11 / SUBM DATE: none			
		: :		
		1		
,	Card 2/2 not			

S/148/61/000/006/003/013 E193/E483

A JTHORS:

Tarnovskiy, I.Ya., Levanov, A.N., Skornyakov, V.B.

Marants, B.D.

TTLE:

Investigation of contact friction forces during

reduction (by forging)

IERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya

metallurgiya, 1961, No.6, pp.53-59

when operations of the squeezing group are used to form a retal component, the working pressure required to effect the plastic attraction, the character of the metal flow and the distribution of stresses and strains depend upon the frictional forces in the area of contact between the tool and the metal being worked. Experimental determination of these forces has been the subject of many investigations in which, however, methods and equipment both complex and inaccurate have been used. In the present paper, its authors describe a simple equipment with the aid of which accurate that on the contact friction forces can be obtained, irrespective of whether static or dynamic loads are used to deform the metal. The equipment (Fig.la) comprises a measuring block (2), split in the centre and held together by a rod (4) incorporating wire strain (and 1/9)

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The measuring block is placed norizontally between the upper (3) and lower (1) plates of a sub-press assembly, so that two test pieces (shown in the diagram by cross-hatching), placed on either side of the measuring block, can be simultaneously deformed. The test pieces must be placed precisely in line and, in the case of cylindrical specimens, a jig (shown in Fig.1b) is used for this In both the upper and lower heads pins (6 and 7), sliding freely in their bushes, are inserted. One end of each pin is in contact with the test piece, the other presses against a measuring rod (5 and 8), also equipped with wire strain gauges. The position of the measuring block can be changed with the aid of an adjusting pin (9). When pressure is applied to the sub-press. assembled as shown in Fig.la, the normal forces in the area of contact between the measuring block and the two test pieces balance The sum of the two friction forces is transmitted onto the measuring rod (4). Consequently, the rod is under the action of a force which is twice the contact friction force, acting in a given part of the contact area whose magnitude depends upon the position of the test piece in relation to the plane of contact of two halves of the measuring block. The pressure exerted on the Card 2/9

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(1)

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test pieces is transmitted by the pins (6 and 7) onto the measuring Pressure and friction forces are recorded with the aid of an oscillograph. This method can be used for weassuring the contact friction forces both during flat deformation and during compression of cylindrical specimens deformed at various rates of By varying the distance S between the centres of the test pieces and the parting plane of the measuring block, the integrated contact friction force can be determined as a function of S and tangential stresses at any point of the contact area an be calculated. In the case of flat, rectangular test pieces, the calculation consists of differentiation of the experimentally determined relationship between the integrated friction force The treatment becomes more complex for a cylindrical test place, axially compressed. In this case, the relationship netween the tangential stresses and the experimentally determined equivalent force F(s) acting on the segment determined by the distance S (Fig.2) is given by $F(s) = 2 \int_{r_K}^{R} \int_{\phi_0}^{\frac{\pi}{2}} \tau(r) r \sin \phi dr + \phi$

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where r and ϕ are the polar coordinates of points on the contact area, $\tau(r)$ is the sought function of the distribution of the tangential stresses along the radius of the contact area and $r_{
m K}$ is the current value of the radius determining the boundary of a given segment along the cord. A method of solving this equation is given and applied to experiments in which the contact friction forces were measured during axial compression of cylindrical lead specimens of 36 mm diameter and 36, 12, 6 and 3 mm high. Thirty tests were carried out for each do/ho ratio, where do and ho denote the diameter and height of the specimens, respectively. The specimens were compressed to approximately 12% reduction in thickness at a strain rate of 6 mm/min. surface finish of the measuring instrument was $\nabla_{\mathbf{s}}$. The results are reproduced graphically. Those obtained for specimens with $d_0/h_0=1$ are shown in Fig. 4, where F (kg, left-hand scale, curve 1), τ (kg/mm², right-hand scale, curve 2) and pressure p (kg/mm², right-hand scale, curve 3) are plotted against S (mm). The results obtained for specimens with $d_0/h_0 = 12$ are shown in the same manner in Fig.7. The results of the present Card 4/9

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investigation confirmed the earlier views (Ref.9: I.Ya.Tarnovskiy, A.A.Pozdeyev, O.A.Ganago. "Deformation and forces in pressure forming of metals", Mashgiz, 1959) on the relationship between the friction forces and the geometry of the deformed specimens and on the distribution of these forces in the contact area. They also confirmed the fact (Ref.10: A.I.Tselikov, Stal', 1958, No.5) that the contact friction forces increase as the do/ho of the specimen increases. There are 7 figures and 10 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut

(Ural Polytechnical Institute)

SUBMITTED: May 4, 1960

Card 5/9

KONDRAT'YEV, A.W., insh.; MARANTS, G.A., insh.

Assembling Ferris wheels in Moscow parks. Mov. tekh. i pered. op.
v stroi. 20 no.4:16-21 Ap '58. (MIRA 11:3)

(Moscow--Amssement parks)

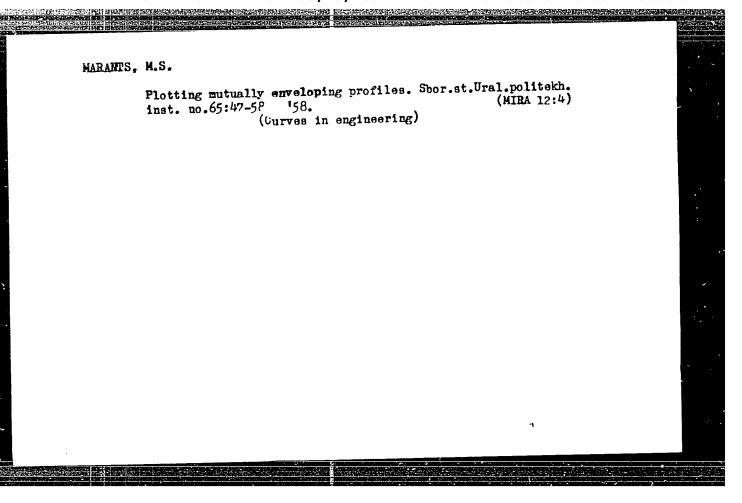
MARANTS, G.Ya.

Pathomorphology of goiters removed surgically during thyrotoxicosis.

Medych.zhur. 21 no.6:99-105'51. (MIRA 11:1)

1. Z viddilu petomorfologii (sav. viddilom - diyaniy chlen AN URSR O.I.Smirnova-Zamkova) Ukraina'kogo institutu klinichnoi meditsini (direktor - akad. M.D.Strazhesko)

(GOITER)



"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032220006-5

J. 42991-66 EWT(1)/EWT(m)/EWP(1)/T SOTE DM 60.

ACC NR: AP6012175 (N) SOURCE CODE: UR/0413/66/000/007/0108/0108

INVENTOR: Marantsev, A. M.; Nikol' skiy, P. N.

ORG: none

TITLE: Lifesaving device. Class 65, No. 180494

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 108

TOPIC TAGS: life raft, caprone net, float, floating anchor

ABSTRACT: An Author Certificate has been issued for a lifesaving device consisting of a towing cable and a caprone het with floats and a floating anchor. To improve the reliability of rescue work, the device is equipped with rafts mounted between the caprone net and the floating anchor, and the floats are connected to the towing cable by hooks (see Fig. 1). Orig. art. has: 1 figure. [Translation]

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UDC: 627, 957, 2

